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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/823,938	03/30/2001	Robert Martin	0102374-00017	7589

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David J. Powsner
Nutter, McClennen & Fish, LLP
One International Place
Boston, MA 02110-2699



EXAMINER	
KNOWLIN, THJUAN P	
ART UNIT	PAPER NUMBER
2642	

DATE MAILED: 12/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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**Supplemental
Notice of Allowability**

Application No.

09/823,938

Examiner

Thjuan P. Knowlin

Applicant(s)

MARTIN ET AL.

Art Unit

2642

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to IDS filed 11/07/05.
2. ☒ The allowed claim(s) is/are 1, 2, 4-7, 9-11, 13, and 16-22 (renumbered as 1-17, respectively).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

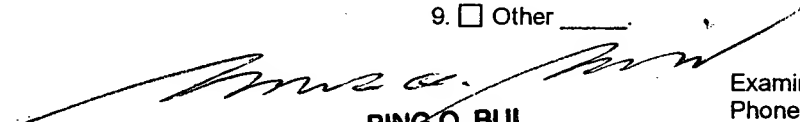
* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

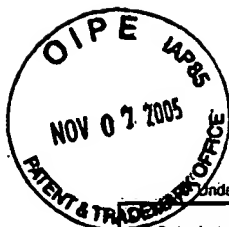
4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 11/07/05
- ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
- ☐ Examiner's Amendment/Comment
- ☐ Examiner's Statement of Reasons for Allowance
- ☐ Other _____


BING Q. BUI
PRIMARY EXAMINER

Examiner: Thjuan P. Knowlin
Phone: (571) 272-7486



PTO/SB/08a/b (07-05)
Approved for use through 07/31/2006. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	09/823,938-Conf. #7589
				Filing Date	March 30, 2001
				First Named Inventor	Robert Martin
				Art Unit	2642
				Examiner Name	T. P. Knowlin
Sheet	1	of	6	Attorney Docket Number	102374-0017

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
AM	AA*	US-4,656,624	04-07-1987	Collins et al.	
AM	AB*	US-4,757,497	07-12-1988	Beierle et al.	
AM	AC*	US-4,771,425	09-13-1988	Baran et al.	
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AM	AH*	US-4,899,333	02-06-1990	Roediger	
AM	AI*	US-4,922,486	05-01-1990	Lidinsky et al.	
AM	AJ*	US-4,949,373	08-14-1990	Baker, Jr. et al.	
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AM	AL*	US-4,977,556	12-11-1990	Noguchi	
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AM	AW*	US-5,568,475	10-22-1996	Doshi et al.	
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AM	AA1*	US-5,619,508	04-08-1997	Davis et al.	
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AM	AR1*	US-5,987,102	11-16-1999	Elliott et al.	
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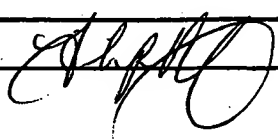
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				Art Unit	2642
				Examiner Name	T. P. Knowlin
Sheet	2	of	6	Attorney Docket Number	102374-0017

AT1*	US-5,881,060	03-09-1999	Morrow et al.
AU1*	US-5,999,525	12-07-1999	
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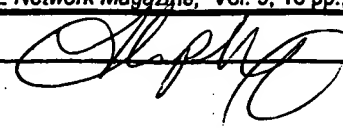
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Examiner Initials*	Cite No.†	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	BA	-EP 000789470 A2	08-13-1997	Hortensius et al.		
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	BO	-WO 97/23078	06-26-1997	Huang, Lisheng		
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	BQ	-WO 99/34612	07-08-1999	Gunasekar, Duraisamy et al.		

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				Attorney Docket Number	102374-0017
Sheet	3	of	6		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(ii)) because that application was filed after June 30, 2003 or is available in the IFW. * Applicant's unique citation designation number (optional). * See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. * Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). * For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. * Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. * Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CA		Yang et al., "A Taxonomy for Congestion Control Algorithms in Packet Switching Networks," <i>IEEE Network Magazine</i> , Vol. 9, pp. 1-17 (1995).	
CB		IBM Nways ATM Solutions Fact Sheet, "Award-winning, industry-leading, low-cost, end-to-end ATM solutions," pp. 1-15 (March 11, 1997).	
CC		Homeworx Dual Tech System for Circuit-Switched and IP Telephony," ADC Telecommunications, Inc., 6 pp. (1998)	
CD		ADC Telecommunications, Inc., "High-Performance Homeworx TM 1550nm Optical Headend Platform Increases Capabilities for Distribution and Supertrunking," 1 pg. (June 4, 1997).	
CE		"Dual Path Receiver Added to ADC's Line of Homeworx TM AM Transmission Products," printed from stele.adc.com , 1 pg. (9/13/2000).	
CF		"ADC Introduces Homeworx TM Forward Path Receiver for Hub and Office Environments," Press Release printed from stele.adc.com , 1 pg. (09/13/00).	
CG		"ADC Provides Homeworx TM Telephony System to Nanjing CATV," printed from stele.adc.com , 1 pg. (09/13/00).	
CH		ADC Telecommunications-Annual Report, "To our Shareholders," printed from media.corporate-ir.net/media...adc/adct_980909_200_100/letter.htm , pp. 1-3 (09/13/00).	
CI		IAC (SM) Newsletter Database (TM), "Broadband: ADC Creates Broadband Communications Division," printed from Lexis-Nexis, pp. 3-5 (08/26/96).	
CJ		ADC Telecommunications, "Homeworx TM is HFComplete: A Lifeline White Paper, 4 pp., printed from bbg.adc.com/Educator/HFC/stories/lifeline/index.html (09/13/00).	
CK		AG Communication Systems, "Infrastructure for DSL Solutions - AGCS," by Mark Emery, printed from agcs.com/techpapers/dsl_inf.htm , pp 1-6 (09/13/00).	
CL		Lucent Technologies Press Release, "Lucent Technologies and VINA Technologies to integrate voice and data onto single line, reducing network costs," 2 pp. (06/02/98).	
CM		Remote Terminal Server for Marathon Integration Products, 2 pp.	
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CP		ISDN Overview, Chap. 4, pg. 102 and Part II: Computer Telephony Services, pg. 248.	
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CS		Telephony over IP Statement of Work, "ANA Project Completion Report on CA*Phonell: Telephony over IP," printed from enfm.utcc.utoronto.ca/c2/voip/Final-Report.html , pp. 1-7 (09/02/00).	
CT		Network Media - IP/PSTN Gateway, printed from networkmedia.demon.co.uk/content/vienna.html , 5 pp. (09/02/00).	
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Examiner Signature			Date Considered 12-15-05

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				Examiner Name	T. P. Knowlin
Sheet	4	of	6	Attorney Docket Number	102374-0017

CV	Mishra, et al., "A Hop by Hop Rate-based Congestion Control Scheme," pp. 112-123 (1992).	
CW	FOCUS - 88 of 89 Stories, Business Wire, Inc., 6 pp., March 5 1996, Wednesday.	
CX	Joe Rinde, "Telephony in the Year 2003," MCI, Powerpoint presentation, 20 pp. (03/31/98).	
CY	Steve Craddock, "Advancing IP Telephony with Residential Broadband," Spring '98 VON Conference, Powerpoint presentation, 17 pp. (04/01/98).	
CZ	John Peters, "Voice on the Net, Commercialization of Internet Telephony," Powerpoint presentation, 20 pp.	
CA1	26 of 150 Documents, PR Newswire Association, Inc., "ADC Receives Contract to Develop Cable Telephony Network for Scandinavian Service Provider Netcom," 2 pp. (10/20/97).	
CB1	Kenneth Guy, Business Landscape, "Save as you speak," <i>The Daily Yomiuri</i> , 5 pp. (02/19/97).	
CC1	David D. Bezar, "LAN times Guide to Telephony," 3 pp.	
CD1	Cisco Introduces First Internetworking Routers with Built-In DSR/CSU Telecommunications Functionality, printed from ieng.com/warp/public/146/pressroom/1996/Mar96, 2 pp. (09/06/00).	
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CF1	"Fast & Furious," MICOM Communications Corp., 1 pg. (05/15/97).	
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CM1	Micom Surpasses 1,200 Voice/IP Gateway - Vol. 9, pp. 6-7 (April 1997)	
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CP1	NetSpeak Corporation to Exhibit First Release of Voice over IP, IP-to-PSTN Networking Products, NetSpeak Corporation Press Release, 3 pp. (September 25, 2000)	
CQ1	Voice-over-DSL patent battle looming?, Network World Fusion, 3 pp. (September 3, 2000)	
CR1	Asymmetric Digital Subscriber Line, Alcatel 1000 ADSL, 1 pg. (September 13, 2000)	
CS1	Table of Contents, Cisco Systems Users Magazine, pp 1-37 (September 10, 2000)	
CT1	Profiling the Current Market, Telecommunications Americas Edition, Vol. 32, 5 pp. (October 1998)	
CU1	Jeffrey R. Shapiro, Computer Telephone Strategies, Chapter 12: CT and the Cyberspace Phenominon, 8 pp.	
CV1	William Stallings, Ph.D., Data and Computer Communications, Chapter 14, Internetworking, 33 pp.	
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CX1	Telephony and data networks, Internet for Business (4 pp.) March 1, 1997	
CY1	VINA Technologies, M2 Presswire, 4 pp. (July 15, 1998)	
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CA2	Dialog printout, No. 131., 29/9/131 (Item 114 from file 275), pp 56-58 (August 1, 2000)	
CB2	Zooming toward 2000, Special Report: China; ISSN: 1067-6317, 5 pp. (November 1996)	
CC2	Lexis-Nexis printout: Workgroup router: NetRunner Integration Router; Micom; 1996 Products of the Year; Product Information Brief Article, Vol. 11, 28 pp. (September 20, 2000)	
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Sheet	5	of	6	Attorney Docket Number	102374-0017

CF2	Corporate Fact Sheet, CopperCom - Company Info, 3 pp. (September 2, 2000)	
CG2	Description of CopperCom, Inc., Chapter 1, Introduction, through Chapter 9, Financial Projections, 37 pp.	
CH2	CopperCom, Creating Voice Services Over Broadband, 19 pp. (September 2, 2000)	
CI2	CopperCom's Integrated Access System for Residences, Small Office Home Offices, and Small Businesses, Requirements Document, Version 1.0, 33 pp. (October 27, 1997)	
CJ2	Powerpoint Presentation to MCI, Reducing the Cost of Network Access, 28 pp. (December 9, 1997)	
CK2	Lexis-Nexis printout: T1: CLECS and Service Providers Line Up Behind VINA Technologies' T1 Integrator, 3 pp. (May 11, 1998)	
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CM2	Lexis-Nexis printout: More on VINA's T1 Integrator For Voice, Data, 2 pp. (June 3, 1997)	
CN2	Reference: Rulemaking 8775 - ACTA Petition on Internet Telephony - ACTA Petition on Internet Telephony before the Federal Communications Commission, 15pp. (October 11, 2005)	
CO2	Sears, Andrew Lester, "Directory Services for Internet Telephony: Creating a Spanning Layer Over the Internet and Telephone Networks", Massachusetts Institute of Technology, 39pps. (8/8/2000)	
CP2	Short, Kristin Illene, "Towards Integrated Intranet Services: Modeling the Costs of Corporate IP Telephony", Massachusetts Institute of Technology, 80pp. (September 1997)	
CQ2	Bandwidth Management Technologies, An Introduction to Micom's Frame Relay, Cell Relay and Fast Packet Technologies, Part 1: MicroBand ATM Cell Relay, 31 pp.	
CR2	Micom: Marathon Data/Voice WAN Solutions, Applications Guide, 56pp. (1997)	
CS2	Micom, Cell Relay for SUB T1/E1 Networks, Overview: Data, Voice, Fax and LAN Integration, 19pp. (1995)	
CT2	Micom, Integrated Networking: Voice and Fax Share LAN/WAN Connections, 16pp. (1995)	
CU2	Micom Press, Welcome to Micom's Press Release Page, 4pp.	
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CW2	Nortel Networks, Products Documentation Webpage, 2pp.	
CX2	Thompson, George A., Micom Communications Corp, Corporate Profile, Digital Age, v16, n6, p7(1), 3pp. (June 1997)	
CY2	Nortel Networks, Products V/IP webpage, 2pp.	
CZ2	Micom, V/IP Phone/Fax IP Gateway, Voice Interface Cards and PC Software, 6pp.	
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CB3	V/IP: Phone/Fax IP Gateway, Putting It All Together, http://www3.nortelnetworks.com/product/vip/together.html , 6pp. (9/18/2000)	
CC3	V/IP: Phone/Fax IP Gateway, How V/IP Works, http://www3.nortelnetworks.com/product/vip/how.html , 4pp. (9/18/2000)	
CD3	V/IP: Phone/Fax IP Gateway, Applications Guide: Complete Voice and Fax Integration Over IP Networks, http://www3.nortelnetworks.com/product/vip/cov.html , 2pp. (9/18/2000)	
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Examiner Signature		Date Considered	12-15-05
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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	09/823,938-Conf. #7589
				Filing Date	March 30, 2001
				First Named Inventor	Robert Martin
				Art Unit	2642
				Examiner Name	T. P. Knowlin
Sheet	6	of	6	Attorney Docket Number	102374-0017

		Hig-Fidelity DSL-Supercharged Data Telephony, 4pp. (June 9, 1997))	
<i>[initials]</i>	CJ3	PowerVoice Illustration, 1p, April 1997.	
<i>[initials]</i>	CK3	Voice Across the Internet, PC Magazine Online, 2pp. (10/21/1997)	
<i>[initials]</i>	CL3	Vienna.way: Doing it Your Way, PC Magazine Online, 4pp. (10/21/1997)	
<i>[initials]</i>	CM3	Micom, V/IP Voice Gateway, PC Magazine Online, 3pp. (10/21/1997)	
<i>[initials]</i>	CN3	RHCs Handle IP the Vienna Way, internetTelephony News Of The Week, 2pp. (September 3, 1996)	
<i>[initials]</i>	CO3	Search results for articles about Alcatel and Pots Splitter, 26pp. (1998)	
<i>[initials]</i>	CP3	Search results for articles about Homeworx access platform and ADC, 10pp. (1995-1996)	
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<i>[initials]</i>	CT3	Search results for articles about Vienna Systems and voice, or data or integrat, 36pp. (1997, 1998)	
<i>[initials]</i>	CU3	Inter-Tel Illustration from April 1997, 1p.	
<i>[initials]</i>	CV3	Computer Telephony, Vol. 4, Issue 9, 5 pp. (December 1996).	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

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